

CLAIMS

What is claimed is:

1. A transcutaneous pain relief composition for applying to the skin, comprising a mixture of:

- 5 dimethyl sulfoxide;
- stearic acid;
- emulsifying wax;
- glycerine;
- emu oil;
- 10 sal butter;
- glucosamine;
- coconut oil;
- white beeswax;
- active calendula oil;
- 15 slippery elm oil;
- chamomile oil;
- arnica oil;
- valenrian oil;
- peppermint oil;
- 20 grapefruit seed extract;
- lavender oil;
- distilled water.

2. The transcutaneous pain relief composition of claim 1, comprising the following components, prepared in any quantity by maintaining equivalent ratios:

	dimethyl sulfoxide	8.30 %
	stearic acid	7.30 %
5	emulsifying wax	5.20 %
	glycerine	5.20 %
	emu oil	4.60 %
	sal butter	6.20 %
	glucosamine sulfate	6.20 %
10	coconut oil	2.10 %
	white beeswax	2.10 %
	active calendula oil	1.90 %
	slippery elm oil	1.90 %
	chamomile oil	2.30 %
15	arnica oil	1.00 %
	valenrian oil	1.00 %
	peppermint oil	2.50 %
	grapefruit seed extract	1.00 %
	lavender oil	1.90 %
20	distilled water	39.40 %

wherein the amounts of any of said components may vary by plus or minus up to 10%.

3. The transcutaneous pain relief composition of claim 1, wherein the effective range of said dimethyl sulfoxide is between 1% and 16% by weight of said composition.

4. The transcutaneous pain relief composition of claim 1, wherein the effective range of
5 said stearic acid is between 0.8% and 14% by weight of said composition.

5. The transcutaneous pain relief composition of claim 1, wherein the effective range of said emulsifying wax is between .6% and 15% by weight of said composition.

10 6. The transcutaneous pain relief composition of claim 1, wherein the effective range of said glycerine is between 0.5% and 15% by weight of said composition.

7. The transcutaneous pain relief composition of claim 1, wherein the effective range of said emu oil is between 1.0% and 10% by weight of said composition.

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8. The transcutaneous pain relief composition of claim 1, wherein the effective range of said sal butter is between 0.8% and 11% by weight of said composition.

9. The transcutaneous pain relief composition of claim 1, wherein the effective range of
20 said glucosamine sulfate is between 0.8% and 14% by weight of said composition.

10. The transcutaneous pain relief composition of claim 1, wherein the effective range of said coconut oil is between .05% and 4.5% by weight of said composition.

11. The transcutaneous pain relief composition of claim 1, wherein the effective range of said white beeswax is between 1.0% and 5.0% by weight of said composition.

5 12. The transcutaneous pain relief composition of claim 1, wherein the effective range of said active calendula Oil is between .05% and 5.0% by weight of said composition.

13. The transcutaneous pain relief composition of claim 1, wherein the effective range of said slippery elm oil is between .05% and 5.0% by weight of said composition.

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14. The transcutaneous pain relief composition of claim 1, wherein the effective range of said chamomile oil is between .05% and 5.0% by weight of said composition.

15. The transcutaneous pain relief composition of claim 1, wherein the effective range of
15 said arnica oil is between .01% and 5.0% by weight of said composition.

16. The transcutaneous pain relief composition of claim 1, wherein the effective range of said valenrian oil is between .01% and 5.0% by weight of said composition.

20 17. The transcutaneous pain relief composition of claim 1, wherein the effective range of said peppermint oil is between .05% and 5.0% by weight of said composition.

18. The transcutaneous pain relief composition of claim 1, wherein the effective range of said grapefruit seed extract is between .09% and 2.5% by weight of said composition.

19. The transcutaneous pain relief composition of claim 1, wherein the effective range of
5 said lavender oil is between .05% and 3.5% by weight of said composition.

20. The transcutaneous pain relief composition of claim 1, wherein the effective range of said distilled water is between 7.0% and 55% by weight of said composition.

10 21. A method of making a transcutaneous pain relief composition comprising the steps of:

combining dimethyl sulfoxide (DMSO), having concentration between 1% and 16% by weight of the final composition with glucosamine sulfate, having concentration between 0.8% and 14% by weight of the final composition, wherein the combination is mixed at
15 room temperature, between 60-75 degrees F, until the glucosamine sulfate is dissolved to form a first mixture;

preparing a second mixture as a carrier for said first mixture by combining the ingredients sal butter having concentration between 0.8% and 11% by weight of the final

20 composition, white coconut oil having between .05% and 4.5% by weight of the final composition, and glycerine having between 0.5% and 15% by weight of the final composition;

heating said second mixture to melting point, approximately 140-160 degrees F;

adding to said second mixture, emulsifying wax having between .6% and 15% by weight of the final composition, white beeswax having between 1.0% and 5.0% by weight of the
5 final composition and stearic acid in an amount between 0.8% and 14% by weight of the final composition;

heating said second mixture to the melting point between 150-170 degrees F.

10 adding to said second mixture distilled water having between 7.0% and 55% by weight of the total composition;

blending said second mixture at low speed between 1-25 Hz until there is no separation;

15 reducing heat to 110-130 degrees F;

adding said first mixture to said second mixture to create a combined mixture;

blending said combined mixture at low speed between 1-25 Hz, until there is no
20 separation;

removing said combined mixture from heat;

adding to said combined mixture emu oil having between 1.0% and 10% by weight of the total composition, active calendula oil having between .05% and 5.0% by weight of the total composition, slippery elm oil having between .05% and 5.0% by weight of the total composition, chamomile oil having between .05% and 5.0% by weight of the total
5 composition, arnica oil having between .01% and 5.0% by weight of the total composition, valenrian oil having between .01% and 5.0% by weight of the total composition, peppermint oil having between .05% and 5.0% by weight of the total composition, grapefruit seed extract having between .09% and 2.5% by weight of the total composition, lavender oil having between .05% and 3.5% by weight of the total
10 composition;

blending said combined mixture at medium speed, between 50-100 Hz, until said combined mixture cools to room temperature, 60-75 degrees F;

15 blending said combined mixture at high speed, between 150-300 Hz, until said combined mixture is stiffened to desired consistency.